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| (21) International Application Number: PCT/US96/12010 (22) International Filing Date: 19 July 1996 (19.07.96) (30) Priority Data: 08/505,606 21 July 1995 (21.07.95) US (69) Parent Application or Grant (63) Related by Continuation US Filed on 21 July 1995 (21.07.95) (71) Applicant (for all designated States except US): BIOGEN, INC. [US/US]: 14 Cambridge Center, Cambridge, MA 02142 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): BROWNING, Jeffrey, L. [US/US]: 32 Milton Road, Brookline, MA 02146 (US). BENJAMIN, Christopher, D. [US/US]: 2 Oak Hill Lane, Beverly, MA 01915 (US). HOCHMAN, Paula, S. [US/US]: 95 Collidge Street, Brookline, MA 02146 (US). (74) Agent: FLYNN, Kerry, A.; Biogen, Inc., 14 Cambridge Center, Cambridge, MA 02142 (US). | | (51) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, S2, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (54) Title: SOLUBLE LYMPHOTOXIN- β RECEPTORS AND ANTI-LYMPHOTOXIN RECEPTOR AND LIGAND ANTIBODIES, AS THERAPEUTIC AGENTS FOR THE TREATMENT OF IMMUNOLOGICAL DISEASE <table border="0"> <tr> <td>1</td> <td>SQFOAVFPYA</td> <td>SENQTCRQOE</td> <td>KEYYZPQERI</td> <td>CCSRCPFGTY</td> <td>VSAKCSRIRD</td> <td>50</td> </tr> <tr> <td>51</td> <td>TVCATCAENS</td> <td>YNEHWYITI</td> <td>COLCRPCDFV</td> <td>HGLEELAPCT</td> <td>SKRRTQCRCQ</td> <td>100</td> </tr> <tr> <td>101</td> <td>PEHPCAAWAL</td> <td>ECTECCLLSD</td> <td>CPFGTEAELE</td> <td>DEVEGQNNHC</td> <td>VECKAGHFON</td> <td>150</td> </tr> <tr> <td>151</td> <td>TSSPSARCQP</td> <td>HTACENGLV</td> <td>EAAPGTAQSD</td> <td>TTCNPLEPL</td> <td>PPEMSGT</td> <td>197</td> </tr> </table> | | | 1 | SQFOAVFPYA | SENQTCRQOE | KEYYZPQERI | CCSRCPFGTY | VSAKCSRIRD | 50 | 51 | TVCATCAENS | YNEHWYITI | COLCRPCDFV | HGLEELAPCT | SKRRTQCRCQ | 100 | 101 | PEHPCAAWAL | ECTECCLLSD | CPFGTEAELE | DEVEGQNNHC | VECKAGHFON | 150 | 151 | TSSPSARCQP | HTACENGLV | EAAPGTAQSD | TTCNPLEPL | PPEMSGT | 197 |
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| 51 | TVCATCAENS | YNEHWYITI | COLCRPCDFV | HGLEELAPCT | SKRRTQCRCQ | 100 | | | | | | | | | | | | | | | | | | | | | | | | |
| 101 | PEHPCAAWAL | ECTECCLLSD | CPFGTEAELE | DEVEGQNNHC | VECKAGHFON | 150 | | | | | | | | | | | | | | | | | | | | | | | | |
| 151 | TSSPSARCQP | HTACENGLV | EAAPGTAQSD | TTCNPLEPL | PPEMSGT | 197 | | | | | | | | | | | | | | | | | | | | | | | | |
| (57) Abstract This invention relates to compositions and methods comprising "lymphotoxin- β receptor blocking agents", which block lymphotoxin- β receptor signalling. Lymphotoxin- β receptor blocking agents are useful for treating lymphocyte-mediated immunological diseases, and more particularly, for inhibiting Th1 cell-mediated immune responses. This invention relates to soluble forms of the lymphotoxin- β receptor extracellular domain that act as lymphotoxin- β receptor blocking agents. This invention also relates to the use of antibodies directed against either the lymphotoxin- β receptor or its ligand, surface lymphotoxin, that act as lymphotoxin- β receptor blocking agents. A novel screening method for selecting soluble receptors, antibodies and other agents that block LT- β receptor signalling is provided. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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